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no. 808

*1981 INSPECTIONS OF*

# **FERTILIZER PESTICIDE AND FEED PRODUCTS**

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**J. Gordon Hanna**

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1981 Inspections of  
Fertilizer, Pesticide and Feed Products

Data obtained by chemical analysis of officially collected samples of commercial feeds, fertilizers and pesticide formulations are contained in this report. The tables show the number of samples from each manufacturer (in parenthesis), the number of determinations made for each guaranteed ingredient, the number of deficiencies, and the average percent of claims for each component.

The deficiencies noted for feed samples are based on the permitted variations recommended by the Association of American Feed Control Officials, the investigational allowances for fertilizers are those of the Association of American Plant Food Control Officials, and the permissive guarantee variations suggested by the Association of American Pesticide Control Officials are used for pesticide formulations.

Data for 805 samples of feed representing 72 manufacturers, 168 samples of fertilizer representing 15 manufacturers and 287 samples of pesticide representing 76 manufacturers are summarized.

The feed and fertilizer laws are administered by the Commissioner of Agriculture. The pesticide law is under the direction of the Commissioner of Environmental Protection.

Analytical work was by M. Fuzesi, W. Glowa, R. Hastings, M.A. Illig, H. Kocaba, M. Pyles, and S. Squires. The report was assembled and typed by D. Brown.

J. Gordon Hanna, Chief Chemist

Feed Manufacturer	Number of Claims				Number Not Met			Average % of Claims		
	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Agway Inc. (119)	119	119	119	357	2	0	0	108	154	61
Allen Products (4)	4	4	4	12	0	1	0	123	134	33
Allied Mills (6)	6	6	6	18	0	0	0	106	132	64
American Crystal Sugar Co. (1)	1	1	1	3	0	0	0	120	100	87
Beacon Milling Co. (18)	18	18	18	54	0	0	0	108	139	62
Best Feeds (1)	1	1	1	3	0	0	0	114	149	42
Bloomfield Farmers Exchange (2)	2	2	2	6	0	0	0	107	100	58
B. & M. Farms (1)	1	1	1	3	0	0	0	129	101	48
Borden International (1)	1	1	0	2	0	0	-	122	100	-
Bozdo Citrus Products (1)	1	1	1	3	0	0	0	120	396	96
Bumble Bee Seafoods (2)	2	2	2	6	0	0	0	124	172	17
Cadillac Pet Foods (1)	1	1	1	3	0	0	0	107	125	56
Calo Pet Foods (9)	9	9	9	27	0	0	0	117	136	25
Carnation Co. (81)	81	81	81	243	1	1	0	118	167	42
Cat Life Packing Co. (1)	1	1	1	3	0	0	0	126	132	57
Central Conn. Co-op (3)	3	3	3	9	0	0	0	103	130	67
Champion Valley Farms (14)	14	14	14	42	0	1	0	116	112	44
CHB Foods, Inc. (2)	2	2	2	6	0	0	0	114	129	35
Compass Foods (3)	3	3	3	9	0	0	0	120	167	79
ConAgra Pet Div. (3)	3	3	3	9	0	0	0	120	155	39
Davis-Grande, Inc. (5)	5	5	5	15	2	0	0	96	173	45
Deep Run Packing Co., Inc. (1)	1	1	1	3	0	0	0	124	150	35
Derby Feed Co. (3)	3	3	3	9	1	0	0	97	150	66
Duett Pet Products (1)	1	1	1	3	1	0	1	77	91	125
8 in 1 Pet Products (6)	6	6	6	18	1	0	0	108	131	61
Federated Foods (5)	5	5	5	15	0	1	0	118	137	67
First National Stores (3)	3	3	3	9	1	1	0	110	137	64
Foster Canning Co. (1)	1	1	1	3	0	0	0	115	160	61
General Foods Corp (18)	18	18	18	54	0	0	0	119	160	32
Goff & Co. (4)	4	4	4	12	1	0	0	107	215	36
Great American & Pacific Tea Co. (4)	4	4	4	12	0	1	1	115	148	66
GroKote, Inc. (4)	4	4	4	12	0	0	2	109	170	125
Halfhill Co. (1)	1	1	1	3	0	0	0	119	100	22
Hartz Mountain Corp. (13)	13	13	13	39	0	2	0	119	123	63
Health Valley Natural Foods (3)	3	3	3	9	0	0	0	113	254	35
Independent Grocers Alliance (1)	1	1	1	3	0	0	0	117	108	25
International Multi-Foods Co. (2)	2	2	2	6	0	0	0	121	142	83
Items, Inc. (1)	1	1	1	3	0	0	0	107	100	24
Jerky Treats, Inc. (3)	3	3	3	9	0	0	0	110	103	60
K. & L. Feed Mill (57)	57	57	57	171	16	3	1	101	130	72
Kal Kan Foods, Inc. (4)	4	4	4	12	0	0	0	124	128	31
Kitty Food Corp. (4)	4	4	4	12	0	0	0	134	179	38
Laddie Boy Pet Foods, Inc. (3)	3	3	3	9	0	0	0	126	218	38
Linton Pet Foods, Inc. (2)	2	2	2	6	0	0	0	135	162	41
Liv-A-Snaps, Inc. (1)	1	1	1	3	0	0	0	125	159	30
Marlboro Products Co. (2)	2	2	2	6	0	0	0	111	133	67
Milk Specialties, Inc. (1)	1	1	1	3	0	0	0	101	96	8
New England Fish Co. (1)	1	1	1	3	0	0	0	115	192	15
L.M. Newfields Co. (2)	2	2	2	6	0	0	0	102	254	75
Old Mother Hubbard (2)	2	2	2	6	0	0	0	111	121	78
Perk Foods (2)	2	2	2	6	0	0	0	141	181	70
Pet Supply Imports (2)	2	2	2	6	1	1	0	168	70	59

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Feed Manufacturer	Number of Claims				Number Not Met			Average % of Claims		
	Protein	Fat	Fiber	Total	Protein	Fat	Fiber	Protein	Fat	Fiber
Pro-Pet, Inc. (2)	2	2	2	6	0	0	0	103	110	51
Quaker Oats Co. (11)	11	11	11	33	0	0	0	129	147	69
Ralston Purina Co. (69)	69	69	69	207	2	3	0	114	153	58
Rytman Grain Co. (10)	10	10	10	30	2	6	2	110	85	86
Shur-Fine Eastern Corp. (5)	5	5	5	15	1	0	0	117	152	83
Star-Kist Foods, Inc. (12)	12	12	12	36	0	0	0	131	177	36
Stock & Sons (1)	1	1	1	3	0	0	0	120	145	76
Stop & Shop (3)	3	3	3	9	0	0	0	114	170	64
Strongheart Products, Inc. (9)	9	9	9	27	0	0	0	129	139	43
Sun Harbor Industries (2)	2	2	2	6	0	0	0	108	133	25
Sweet Life Products Corp. (4)	4	4	4	12	0	2	0	112	112	52
Thermovac Industries (1)	1	1	1	3	0	1	0	117	71	5
United Co-op Farmers (57)	57	57	57	171	2	1	0	107	140	73
Universal Cooperatives, Inc. (2)	2	2	2	6	0	0	0	107	160	37
Wafcol Ltd. (2)	2	2	2	6	0	0	1	113	132	64
Wakefern Food Corp. (7)	7	7	7	21	0	0	1	111	177	40
Wardley's Products Co. (1)	1	1	1	3	0	1	1	118	72	127
William S. Warren & Son (9)	9	9	9	27	0	0	0	105	159	70
Wayne Feed Div. (1)	1	1	1	3	0	0	0	106	103	67
H.K. Webster (162)	162	162	162	486	4	3	0	108	125	68
(805)	805	805	804	2414	38	29	10	112	144	60
Percent of Claims Deficient:				3.2						

[illegible]

## Mixed Fertilizer Distribution

July 1, 1980 - June 30, 1981

Tonnages of Fertilizer Materials and Mixed  
Fertilizers Purchased During the Period of  
July 1, 1980 - June 30, 1981

Grade	Tons
0-10-40	107
0-15-30	165
0-25-25	54
5-10-10	2405
5-10-5	1622
5-20-20	45
7-7-7	57
8-16-16	60
10-6-4	3431
10-10-10	4718
10-20-10	714
10-20-20	489
12-4-8	109
14-14-14	60
15-8-12	1020
15-10-10	2461
15-15-15	666
15-30-15	43
16-8-8	94
19-19-19	280
20-4-8	277
20-5-10	520
20-10-5	142
20-10-10	387
20-10-15	195
20-20-20	68
25-3-3	433
25-3-5	133
25-5-10	190
26-4-6	189
	21134
Miscellaneous *	20230
Total	41364

Chemical Nitrogen	
Ammonium nitrate	107
Ammonium sulfate	24
Calcium nitrate	104
Nitrate of soda	66
Nitrate solutions	319
Urea	3514
Ureaform	196
	4330

Organics	
Cottonseed meal	110
Dried blood	10
Dried manure	4637
Sewage sludge	739
Tankage	87
	5583

Phosphates	
Ammonium phosphate	1468
Bonemeal	110
Phosphate rock	19
Superphosphate 20%	31
Superphosphate 40%	438
	2066

Potash	
Muriate of potash	2439
Potassium magnesium sulfate	87
Potassium sulfate	21
Tobacco stems	87
Other potassium materials	22
	2656

Secondary and micronutrients	
Borax	16
Epsom salt	19
Gypsum	98
	133

\* Small amounts or reported by  
fewer than three manufacturers.

Total	14,768
Commercial Mixtures	41,364
Total	56,132

## 1981 Inspection Report

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Pesticide Manufacturer	Pesticide	Number of Claims	Number Not Met	Average % of Claims
Acme Div. nbi/Gordon Corp.(5)	2,4-D	1	0	97
	Diazinon	1	0	98
	Dursban	1	0	99
	Malathion	1	0	103
	Prometon	1	0	100
	Sevin	1	0	101
Agchem Div., Pennwalt Corp.(1)	Endothall	1	0	108
Agricultural Products Co.(1)	Amitrole	1	0	110
Agway, Inc. (17)	Captan	1	0	107
	Chlorothalonil	1	0	102
	2,4-D	1	0	101
	Dacthal	1	0	106
	DDVP	1	0	111
	Diazinon	3	0	101
	Dicamba	1	0	96
	Dursban	1	0	102
	Ethion	1	0	105
	Ethylene-bis-dithio- carbamate	1	0	173
	Malathion	3	0	102
	Maneb	1	1	79
	Manganese	1	0	244
	Methoxychlor	1	0	98
	Sevin	1	0	102
	Simazine	1	0	110
	Zinc	1	0	100
	Zineb	1	0	108
Alco Chemical Co.(1)	Tris(hydroxymethyl)- nitromethane	1	0	112
Ambion Corp.(1)	Didecyl dimethyl ammonium chloride	1	0	110
Amchem Products, Inc.(4)	Amitrole	1	0	102
	2,4-D	3	0	105
	Dicamba	2	0	104
	2-(2,4-Dichlorphenoxy) pronionic acid	1	0	103
American Cyanamid Co.(2)	Methylene-bis(thiocyanate)	2	0	163
American Fluoride Corp.(1)	Warfarin	1	0	99
Black Leaf Products Co.(10)	Captan	1	0	98
	(5-Benzyl-3-furyl)- methyl-2,2-dimethyl- 3-(2-methylpropenyl)- cyclopropane carboxylate	1	0	99
	2,4-D	2	0	114
	Diazinon	1	0	98
	Dicamba	1	0	80
	Malathion	2	0	103
	Methoxychlor	2	0	100
	Nicotine	1	0	114
	Sevin	1	0	101
	Sodium chlorate	1	0	104
	Sodium metaborate	1	0	102
Blue Ribbon Products Co.(1)	Captan	1	0	104
Bonide Chemical Co.(23)	Ammonium sulfamate	2	0	100
	Captan	2	0	106
	Copper	3	1	97
	Cygon	1	0	104

Pesticide Manufacturer	Pesticide	Number of Claims	Number Not Met	Average % of Claims
(Bonide Chemical Co. Continued)	Diazinon	3	2	80
	Dursban	1	0	98
	Folpet	1	0	99
	Karathane	1	0	107
	Kelthane	1	0	99
	Malathion	3	0	99
	Methoxychlor	4	0	103
	Phenothrin	1	0	107
	Piperonyl butoxide	2	0	82
	Pyrethrins	1	0	98
	Rotenone	2	0	100
	Sevin	1	0	98
	Sulphur	1	0	98
	Tetramethrin	1	0	95
	Vapona	1	0	102
	Zinc phosphide	1	0	106
Borderland Products, Inc.(1)	Copper oxalate	1	0	168
Boyle-Midway, Inc.(5)	Baygon	3	0	107
	DDVP	2	0	99
	Methoxychlor	1	0	101
	Phenothrin	1	0	102
	Tetramethrin	1	0	105
Bridgeport Brass Co.(1)	Pyrethrins	1	0	---a
Chemical Testing Corp.(2)	Poly[oxvethylene (dimethylimino)-ethylene (dimethylimino)ethylene- dichloride]	1	0	91
	N-Methyldithiocarbamate	1	0	156
Chevron Chemical Co.(30)	Ammonium sulfamate	1	0	107
	Aspon	1	0	110
	Baygon	2	0	107
	Calcium polysulfides	1	0	---b
	Captan	3	0	108
	Carbaryl	4	0	103
	Chlordane	1	0	99
	Chlorothalonil	2	0	103
	2,4-D	1	0	107
	Dacthal	1	0	102
	Diazinon	4	0	95
	Folpet	1	0	113
	Glyphosate	1	0	100
	Kelthane	2	0	102
	Lindane	1	0	101
	Malathion	3	0	106
	MCPP	1	0	103
	Mesuroi	1	0	102
	MetaSystox R	1	0	104
	Methoxychlor	2	0	100
	Naled	1	0	105
	Resmethrin	2	0	98
	Silvex	1	0	102
	Triforine	1	0	102
Ciba-Geigy Corp.(5)	Diazinon	5	0	99
	Piperonyl butoxide	2	0	96
	Pyrethrins	2	0	96
John Clarke Div.(1)	Naphthalene	1	0	99
Cline-Buckner, Inc.(1)	2,2-Dichlorovinyl dimethyl phosphate	1	0	98



Pesticide Manufacturer	Pesticide	Number Of Claims	Number Not Met	Average % of Claims
Connecticut Aerosols, Inc.(20)	Alkyl dimethyl benzyl- ammonium chlorides	3	0	88
	Alkyl dimethyl ethyl benzyl- ammonium chlorides	3	0	85
	d-trans-Allethrin	4	0	99
	2,2-Dichlorovinyl dimethyl phosphate	3	0	102
	2,2-Dimethyl-3- (2-methylpropenyl)- cyclopropane carboxylate	2	0	118
	2-(1-Methylethoxy) phenylmethyl carbamate	3	0	102
	3-(2-methylpropenyl) cyclopropane carboxylate	2	0	101
	N-Octyl bicyclohexenedicar- boximide	1	0	110
	o-Phenylphenol	1	1	51
	Phenothrin	7	0	97
	Pine oil	2	0	97
	Piperonyl butoxide	1	0	100
	Soap	2	0	87
	Tetramethrin	8	0	100
Creative Products, Inc.(2)	Hydrochloric acid	1	0	---b
	Phosphoric acid	1	0	---h
	Propylene glycol	1	0	99
	Triethylene glycol	1	0	99
	Zinc chloride	1	0	---b
Frank J. Curran Co.(1)	Naphthalene	1	0	100
The d-Con Company, Inc.(3)	Baygon	1	0	110
	DDVP	1	0	97
	SBP 1382	1	0	104
	Warfarin	1	0	107
Dexol Industries (11)	Bendiocarb	1	0	102
	Calcium polysulfide	1	0	---b
	1,1-bis(Chlorophenyl)- 2,2,2-trichloroethanol	1	0	91
	Copper	1	0	96
	DiSyston	1	0	118
	Dursban	2	0	98
	Kelthane	1	0	98
	Maneb	1	0	100
	Methoprene	1	0	120
	Mineral oil	1	0	---b
	Nicotine	1	0	113
	Petroleum hydrocarbons	1	0	---b
	Piperonyl butoxide	1	0	105
	Pyrethrins	1	0	90
	Resmethrin	1	0	110
Diall Chemical Corp.(1)	bis-(Triisobutyltin)oxide	1	0	142
E.I. duPont de Nemours & Co.(1)	Benomyl	1	0	101
Ecometrics, Inc.(1)	Coal tar acids	1	0	---b
	Soap	1	0	---b
Enoz Div., Irwin Willert Co.(1)	SBP-1382	1	0	96
Excell Chemical Products Co.(1)	Naphthalene	1	0	100
Faesly & Bestoff, Inc.(1)	Carbaryl	1	0	100
Fisons, Inc.(1)	Ficam	1	0	101

Pesticide Manufacturer	Pesticide	Number of Claims	Number Not Met	Average % of Claims
Gotham Chemical Co. (6)	N-Methyldithiocarbamate	2	0	101
	Poly[(oxyethylenedimethyl- imino)ethylene(dimethyl- imino)ethylenedichloride]	2	2	28
	Quaternary ammonium compounds	2	0	---a,b
	Tin	1	0	---a,b
Hartz Mountain Corp. (1)	2-Chloro-1-(2,4,5-trichloro- phenyl)vinyl dimethyl phosphate	1	0	107
Hills Pet Chemicals, Inc. (1)	N,N-Diethyl-m-toluamide	1	0	105
Hofman Water Treating Co. (1)	Methyldithiocarbamate	1	0	176
Hubbard Hall Chemical Co. (3)	Sodium hypochlorite	3	1	64
I.C.I. Americas, Inc. (1)	Brodifacoum	1	0	104
S.C. Johnson & Son, Inc. (9)	d-trans-Allethrin	4	0	94
	Baygon	2	0	105
	DDVP	1	0	97
	Diethyl-m-toluamide	2	0	104
	Durshan	1	0	98
	Octylbicycloheptene- dicarboximide	1	0	108
	Resmethrin	4	0	103
	Tetramethrin	1	0	115
Jones Chemical, Inc. (1)	Sodium hynochlorite	1	0	110
H. Krevit & Co. (7)	Sodium hypochlorite	7	7	75
Lambert Kay Div., Carter Wallace, Inc. (2)	Carbarvl	1	0	102
	Methylnonylketone	1	0	97
Lebanon Chemical Corp. (1)	Trifluralin	1	0	95
O.E. Linck Div., Walco-Linck Corp. (2)	Baygon	2	0	110
Mallinckrodt, Inc. (2)	Ethylene-bis-dithio- carbamate	1	0	117
	Manganese	1	0	117
	Thiophanate	1	0	105
	Zinc	1	0	117
Miller Morton Co. (2)	d-trans-Allethrin	1	0	104
	o-Isopropoxyphenylmethyl carbamate	1	0	98
	Piperonyl butoxide	1	0	96
Modern Pool Products, Inc. (7)	Alkyldimethylethyl- ammonium bromide	1	1	41
	Calcium hypochlorite	2	0	115
	Dichlone	4	1	85
	Sodium hypochlorite	1	1	56
Mushroom Supply Co. (1)	Zineb	1	0	111
Muskol U.S. Ltd. (1)	Diethyl-m-toluamide	1	0	101
Nutmeg Chemical Co. (4)	Methyldithiocarbamate	1	0	135
	Poly[oxyethylene(dimethyl- imino)-ethylene(dimethyl- imino)ethylene dichloride]	3	0	89

Pesticide Manufacturer	Pesticide	Number of Claims	Number Not Met	Average % of Claims
The Parrott Chemical Co.(25)	Captan	3	0	105
	Carbaryl	6	0	108
	Chlopyrifos	1	0	99
	Copper sulfate	3	0	121
	2,4-D	2	0	103
	Diazinon	3	0	102
	Dichloro	3	2	51
	Malathion	5	0	106
	Methoxychlor	3	0	99
	Piperonyl butoxide	2	0	94
	Prometon	1	0	100
	Pyrethrins	2	0	106
	Rotenone	3	0	107
	Sulphur	3	0	104
S.B. Pennick & Co.(1)	Chlordane	1	1	0
	Diazinon	1	1	---a
Pet Chemicals, Inc.(1)	Bavon	1	0	114
	2,2-Dichlorovinyl- dimethyl phosphate	1	-	104
Petrokem Corp.(2)	Naphthalene	1	0	100
	Phenothrin	1	0	115
	Tetramethrin	1	0	88
Pharmaceutical Research L (2)	Alkyldimethylbenzyl- ammonium chloride	2	0	104
	Alkyldimethylethylbenzyl- ammonium chloride	2	0	103
B.G. Pratt Div., Gabriel Chemicals Ltd.(2)	Dimethoate	1	0	98
	Methoxychlor	1	0	98
Ralston Purina Co.(5)	Malathion	2	0	99
	MGK 264	2	0	124
	MGK Repellent 326	2	0	108
	MGK Repellent II	1	0	110
	Piperonyl butoxide	3	0	91
	Pyrethrins	4	0	102
	Sevin	1	0	112
Rockland Chemical Co.(1)	Ferban	1	0	108
Rohm & Hass Corp.(1)	Manganese	1	0	102
	Zinc	1	0	120
Sanitary Products Corp. (1)	Alkyldimethylbenzyl- ammonium chlorides	1	0	107
	Alkyldimethylethylbenzyl- ammonium chlorides	1	0	107
Sanitized, Inc.(2)	5-Chloro-2-(2,4-dichloro- phenoxy) phenol	1	0	79
	Diphenylstibine-2-ethyl- hexoate	1	0	99
Savol Bleach Co.(3)	Sodium hypochlorite	3	0	106
Science Products Co. (6)	Carbaryl	1	0	106
	Disyston	1	0	110
	Kelthane	3	0	99
	Methoxychlor	1	0	101
Seaboard, Industries(1)	Alkyldimethylbenzylammonium chloride	1	0	107
	Dialkylmethylbenzyl- ammonium chloride	1	0	107
Seacoast Laboratories, Inc. (9)	Captan	1	0	104
	Carbaryl	3	0	106

Pesticide Manufacturer	Pesticide	Number of Claims	Number Not met	Average % of Claims
	Diazinon	1	0	98
	Folpet	1	0	104
	Kelthane	1	0	100
	Malathion	4	0	103
	Methoxychlor	2	0	102
	Rotenone	1	0	123
	Zineb	2	0	108
Senoret Chemical Co.(1)	Rosin	1	0	84
	Mineral oil	1	0	---b
The 707 Company(1)	Allethrin	1	0	129
	Diazinon	1	0	104
	N-Octylbicycloheptene- dicarboximide	1	0	101
Spray Way, Inc.(1)	DDVP	1	0	109
	Malathion	1	0	105
	Pyrethrins	1	0	132
Stauffer Chemical Co.(1)	N-(Mercaptomethyl)phthalimide- S-(0,0-dimethylphosphoro- dithionate	1	0	103
Sudbury Laboratory, Inc.(1)	Methylnonylketone	1	0	102
Swift Agricultural Chemical Corp.(3)	Diazinon	1	0	97
	Malathion	1	0	99
	Pyrethrins	1	0	100
	Rotenone	1	0	118
R.T. Vanderbilt Chemical Corp.(2)	Dimethyldithiocarbamate	1	0	101
	2-Mercaptobenzothiazole	1	0	125
	Tris-1,2-bis(n-propyl- sulfonyl)-ethene	1	0	94
Velsicol Chemical Corp.(1)	Ficam	1	0	101
Why Not Industries (2)	o-Isopropoxyphenylmethyl- carbamate	2	0	105
	N-Octylbicycloheptenedi- carboximide	2	0	103
	Piperonyl butoxide	2	0	110
	Pyrethrins	2	0	100
York Chemical Co.(1)	O,O-Diethyl-O-(2-Isopropyl- 6-methyl-4-pyrimidinyl)- phosphorothioate	1	0	98
Zodiac Pet Products Div., Soecon, Inc.(3)	Baygon	3	0	98
(287)		424	20	101

Percent of claims not met: 4.7

- a. Concentration not declared  
b. Qualitative tests only



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